

Mid-West University
Examinations Management Office
 Surkhet, Nepal
End Semester Examination -2080

Level: B.Ed. / II Semester

Sub: Basic Mathematics (POP 326)

Roll No.

Group "A"

$10 \times 1 = 10$

Tick (✓) the best answer.

1. The symbol of union can be written as...

- | | |
|------|------|
| a. £ | b. Ø |
| c. U | d. # |

2. If $|B| = \begin{vmatrix} 7 & 4 \\ 5 & 3 \end{vmatrix}$ then, the value of this determinant is

- | | |
|------|-------|
| a. 1 | b. -2 |
| c. 6 | d. 7 |

3. What is the name of this matrix? $I = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$

- | | |
|--------------------|----------------------|
| a. square matrix | b. column matrix |
| c. identity matrix | d. triangular matrix |

4. The value of $\log e$ is

- | | |
|-----------|-----------|
| a. 0.3434 | b. 0.4343 |
| c. 0.4926 | d. 0.4334 |

5. Which one is the true form?

- | | |
|--------------|----------------|
| a. $x^0 = 1$ | b. $x^0 = 10$ |
| c. $x^0 = 0$ | d. $x^0 = 100$ |

6. The value of any index is not changeable then it is said to be,

- | | |
|-------------|----------------|
| a. constant | b. variable |
| c. equation | d. coefficient |

7. Which one is the true form of monomial expression?

- | | |
|----------------------|----------|
| a. $7ab$ | b. $a+1$ |
| c. $X^2 + Y^2 - Z^2$ | d. $p-q$ |

8. What is the name of the value before decimal part in logarithm?

- | | |
|--------------------|-------------|
| a. mantissa | b. dominant |
| c. characteristics | d. function |

9. The matrix is usually denoted by ...

- | | |
|------------------------------------|------------------------------|
| a. capital letters | b. small letters |
| c. small letter and capital letter | d. numbers and small letters |

10. $f^i(x) = 5x^3 - 7x + 5$ is ...

- | | |
|-----------------|---------------|
| a. $15x^2 - 7$ | b. $18x - 7x$ |
| c. $12x^2 - 9x$ | d. $12x - 2$ |